SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

General Information

Mission
The mission of the School of Engineering and Computer Science (ECS) is to provide a superior education through instruction, scholarship, and service that prepares graduates for professional practice and responsible leadership with a Christian worldview.

The mission of the School of Engineering and Computer Science results in the following goals:

- To foster an educational environment that promotes students success;
- To support faculty and staff commitment for achievement in teaching, scholarly pursuits, professional development and service contributions;
- To promote Christian values and community;
- To be nationally recognized for quality engineering and computer science programs.

History
In 1973, the first computer science faculty member joined the Department of Mathematics to teach and develop programs in computer science; and by 1974, both the Bachelor of Science and the Bachelor of Arts degrees in computer science were offered by the Department of Mathematics.

During the 1978-79 academic year, the University approved the formation of the Institute of Engineering Science to offer an engineering degree within the College of Arts & Sciences. The Institute became operational with its first director in the fall of 1979.

In June 1980, the Computer Science Program in the Department of Mathematics was combined with the Engineering Science Program in the Institute of Engineering Science to form the Department of Engineering and Computer Science. The Department grew rapidly and in February 1982, the Baylor Computer Science Program gained national recognition by winning the International Scholastic Programming Contest.

In 1985, the master of science degree in computer science was offered for the first time at Baylor and, in that same year, the Baylor bachelor of science degree in Computer Science was one of only fifty programs to be accredited by the Computer Science Accreditation Commission, Inc. (CSAC) of the Computer Science Accreditation Board (CSAB), the national accrediting agency for computer science programs.

In the summer of 1988, the Department of Engineering and Computer Science moved into the newly constructed Rogers Engineering and Computer Science Building, which was built specifically to support the engineering and computer science programs. In 1989, the Engineering program was accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET), the national accrediting agency for engineering programs.

The School of Engineering and Computer Science was established in 1995, with its two departments, the Department of Computer Science and the Department of Engineering.

In 1998, the Board of Regents approved the bioinformatics major. The purpose of this multidisciplinary program was to combine computer science with other programs that need to process large amounts of data.

In 2001, EAC/ABET granted separate accreditation of the Department of Engineering's three baccalaureate programs: Electrical and Computer Engineering, Mechanical Engineering, and Engineering.

In 2004, Baylor’s Board of Regents approved the introduction of four new masters programs in the Department of Engineering.

The Department of Engineering was reorganized into two departments, the Department of Electrical and Computer Engineering and the Department of Mechanical Engineering, in 2005.

In 2010, the Board of Regents approved the doctoral program (Ph.D.) in Electrical and Computer Engineering.

In 2013, the Board of Regents approved the doctoral program (Ph.D.) in Mechanical Engineering. This same year the General Engineering major was restructured and enhanced to include the choice of four concentrations (biomedical, geo-petro, environmental, and humanitarian engineering) and a minor option.

In 2016, the Computer Science doctoral program (Ph.D.) was approved.

Facilities
The School of Engineering and Computer Science is housed in several buildings across campus including the Rogers Engineering and Computer Science Building, Hankamer/Cashion Academic Centers, Baylor Sciences Building, Teal Residential College, Baylor Research and Innovation Collaborative, and the Engineering and Computer Science Annex.

Teal Residential College
Teal Residential College is an intentionally designed living-learning program for students pursuing a degree in Engineering, Computer Science, Informatics, or Nursing. As a member of Teal, students will find a community focused on academic excellence and spiritual growth, a place to build meaningful relationships with other students and faculty, opportunities to engage in leadership outside of the classroom, and exciting programs and events that challenge and support student development. Teal is conveniently located near East Village Dining Commons, McLane Student Life Center, Baylor Sciences Building, and Elliston Chapel. With a variety of residential rooms and common spaces that cater to the lifestyle of an ECS student (media room, tech lab, library, and study spaces), students at Teal have a community supported by a live-in Faculty Steward and full-time staff members who facilitate a positive experience inside and outside of the classroom.

Career Center
The mission of the Engineering and Computer Science Career Center is to ensure each student has the opportunity and support to achieve their career potential. Our office is committed to the idea that every ECS student at Baylor University will have access to career resources as well as dedicated career professionals based on their specific major. We regularly share information such as job placement, graduate school placement, student career success, average salaries, major employers, and career profiles of each graduating class to students, staff, faculty and key stakeholders. There is a strong push to actively increase student ownership and engagement in their career success as they move towards graduation. The programs provided by the Baylor University Career Center will facilitate greater connection to employers and Baylor alumni in
support of the student’s career progression towards internships, full-time employment, and graduate school.

Laboratory Support
All students taking classes from ECS have access to general computing resources on campus as well as labs and resources available only to ECS students. The school provides computers in laboratory spaces with a full suite of software specific to the Engineering & Computer Science disciplines. Students have access to the labs 24 hours a day, 7 days a week during the semester by using their Baylor ID Card, and some labs are reserved for upper-level students and project work. Wireless internet is available throughout ECS facilities and easy to access power is provided in many of our common areas. Support for ECS computing and technology resources is provided by dedicated full time support staff and a group of student workers.

All Engineering and Computer Science classrooms include full audio-visual capabilities allowing faculty and students the ability to have interactive classroom presentations and to facilitate remote learning as needed.

The Computer Science department maintains computer labs, studio spaces and a collection of Linux servers which are available to students based on the classes in which the student is enrolled. Most labs have similar software allowing students the ability to move around between labs based on class schedules and lab availability. Specific classes have designated meeting times in the lab to allow the faculty member to assist with projects and group work. Several studio spaces are dedicated each semester for use by the Senior Capstone class in which students have full control of the systems to allow them to design and develop their project as needed.

The Engineering departments have seven well equipped labs that support the learning outcomes as well as the hands-on portion of the curriculum. Several of the labs include dedicated hardware for data acquisition, analyzing signals and building components to help the students learn. The departments are also expanding their additive manufacturing capabilities, allowing the students to turn their ideas into reality. Machine shop facilities and a machinist are also available for project and research work.

Course Repetition
Students taking a course in the School of Engineering & Computer Science will have a maximum of two attempts of any one ECS course to fulfill a prerequisite or requirement for a degree, major, or minor. Students pursuing an ECS major are allowed a maximum of 4 unsuccessful attempts of courses required for the degree to continue in the major. An insufficient earned grade or receiving a “W” notation counts an unsuccessful attempt. A course receiving a “W” notation for a semester in which the student withdraws from all courses is not counted as an unsuccessful attempt. Additional attempts will not be granted except by permission from the student's Dean (or his/her representative).

Class Attendance Policy
Class attendance is expected at all regularly scheduled course sessions. Faculty members may choose to have class attendance requirements and may also establish penalties for excessive absences or tardiness. The department chair and dean will endorse the attendance policies outlined in the instructor’s syllabus. If an absence is unavoidable, due to a university-sponsored activity, illness, accident, or death in the family, students are expected to make advanced or immediate contact with the faculty member to decide when to complete scheduled assignments and coursework.

Academic Advisement
To supplement the mentoring that students receive from faculty, they are required to meet with a professional staff advisor each semester before registering for classes. ECS advisors monitor progress toward graduation and make appropriate referrals. An advisor will review academic progress and student success resources with each student, as well as discuss course recommendations for the following semester. Beginning in the student’s third year at Baylor, students are required to submit graduation plans to be reviewed by his or her advisor.

Honor Societies
Eta Kappa Nu National ECE Honor Society, Kappa Tau Chapter, Dr. Adam Weaver, Advisor. Eta Kappa Nu, abbreviated HKN, is the national honor society for Electrical and Computer Engineering students. Baylor's group is the Kappa Tau Chapter. Membership is by invitation and is based on a review of the student's high academic record and character. Junior ECE majors in the upper one-fourth, and senior ECE students in the upper on-third, of their respective classes are eligible for consideration and election to HKN.

Pi Tau Sigma, Dr. Jonathan Rylander, Advisor, is the international honor society for mechanical engineering students. Baylor's chapter is the Baylor Beta Beta Chapter. Membership is by invitation and is based on a review of the student's high academic record and character. Junior ME majors in the upper one-fourth and senior ME students in the upper one-third of their respective classes are eligible for consideration and election to Pi Tau Sigma.

Upsilon Pi Epsilon, Dr. Gregory Speegle, Advisor, is an honorary computer science association that promotes high scholarship and original investigations in the branches of computer science. Membership in the Baylor chapter is composed of individuals whose academic achievements, reputations, and creative abilities deserve recognition. The chapter inducts members twice each year and assists fellow students in their academic pursuits.

Student Organizations
Amateur Radio Club at Baylor University
Patrick Hynan, Advisor

The Baylor Amateur Radio Club (BARC) provides educational opportunities for students concerning the scope of amateur radio and radio license acquisition, opportunities for public service during emergencies and local charitable activities, and an operable amateur radio station for members.

American Society of Mechanical Engineers
Dr. Kenneth Van Treuren, Advisor

Membership in the Baylor University student section of the American Society of Mechanical Engineers is open to all Baylor students who are student members of the American Society of Mechanical Engineers. The purposes of this section are:

1. to acquaint members with the goals and programs of ASME and to encourage participation in the activities of the Society, and
2. to sponsor and promote activities which will enhance the total educational experience of the members.
Association for Bioinformatics and Biotechnology
Dr. Erich Baker, Dr. Mary Lauren Benton, Advisors

ABB is a student organization dedicated to helping build and foster common interests in Bioinformatics with those in the major and like-minded students. ABB provides members with:

1. a better understanding of Bioinformatics,
2. a network with other students, professors, and professionals in the field, and
3. support for scholarly success.

All these goals are achieved through meetings, attendance of symposia, and other social activities.

Association for Computing Machinery
Dr. Bill Booth, Advisor

ACM was organized and chartered in 1974. The student chapter assists members in maintaining a close, regular association with fellow students and faculty who are also interested in computing. In addition, the chapter sponsors the Baylor Programming Team which competes in the ACM Regional and ACM International Collegiate Programming Contests. Periodic meetings provide a combination of social interaction, professional dialogue, public service, and professional development. Membership is open to anyone with an interest in computing.

Baylor Build
Dr. Beth Lanning, Advisor

BUILD turns shipping containers into medical facilities. These will be sent overseas to Rwanda in Africa where 25,000 patients will be seen in a year and will be in use for over 15 years.

BU Cyber
Dr. Jeff Donahoo and Professor Shaun Hutton, Advisors

BU Cyber is an organization that focuses on fostering a community of individuals interested in cybersecurity, connecting them with industry professionals for future employment, and developing industry-related skills. Infosec is dedicated to helping students gain both the offensive and defensive aspects of cybersecurity. Members of Baylor Infosec have anywhere between no prior cybersecurity knowledge to advanced skills. The Baylor Cybersecurity competition team is composed of our most advanced members of BU Cyber. The goals of the organization are achieved through holding weekly meetings, facilitating hands-on applications, hosting security competitions, and other activities.

BUV at Baylor University
Dr. Douglas Smith Advisor

Baylor BUV is a humanitarian organization that provides undergraduate engineering students hands-on experience with design and construction of a Basic Utility Vehicle (BUV) for developing countries and mission activities.

Computing for Compassion
Dr. Jeff Donahoo, Dr. Bill Booth, Advisors

Computing for Compassion (C4C) serves compassion-based ministries through the appropriate application of computing solutions. Such solutions seek to magnify the capabilities of such ministries by solving their most frustrating problems. C4C enables students an opportunity to apply their technical skills to such mission work, gaining real-world experience along the way.

Engineers with a Mission
Professor Brian Thomas, Advisor

Engineers with a Mission (EM) is a unique Christian organization that envisions and mobilizes engineering students to serve the people of developing countries with their technical skills through appropriate technology projects and mission-oriented trips abroad.

Institute of Electrical and Electronics Engineers
Professor Steven Potter, Advisor

The Baylor University student branch of the IEEE is affiliated with the Institute of Electrical and Electronics Engineers, Inc., an international organization which is the world’s largest technical professional society. Through projects, field trips, and meetings, the student branch fosters the professional growth of its members and promotes a closer relationship among students, faculty, and the engineering community. Student membership in the international IEEE organization is open to any student pursuing at least a half-time course of study in engineering, computer science, or a related field. Baylor student branch membership is open to any student member of the IEEE.

Microwave Theory and Techniques
Dr. Charles Baylis, Advisor

The Baylor University Student Branch Chapter of the IEEE Microwave Theory and Techniques Society (MTT-Society) is a subordinate of the international MTT-Society, which promotes “the advancement of microwave theory and its applications, including RF, microwave, millimeter-wave, and terahertz technologies.” With support of dedicated faculty and sponsors, the Baylor Chapter of the MTT-Society strives to bring microwave lecturers to the Baylor campus to speak at least once a month, and MTT-Society members get the opportunity to meet these lecturers in a small group setting. Baylor Chapter membership is open to any student who is a registered member of the international IEEE and MTT-Society.

National Society of Black Engineers
Dr. Erik Blair, Advisor

The Baylor Chapter of the National Society of Black Engineers is dedicated to the academic and professional success of African-American engineering students and professionals. NSBE offers its members leadership training, professional development activities, mentoring opportunities, career placement services and more. The NSBE Torch symbolizes the organization’s everlasting, burning desire to achieve success in this competitive society and to effect positive change in the quality of life of all people. Collegiate Membership is open to any undergraduate or graduate student enrolled in science, technology, engineering, or math (STEM).

Oso eSports
Patrick Clancy, Advisor

The purpose of Oso eSports is to promote and develop the emergence of eSports at Baylor University, leading to campus unity in video gaming and entertainment. We aim to achieve this purpose through three goals. First, have fun playing video games in order to encourage healthy stress release from rigorous examinations and academic coursework. Second, create a strong gaming and entertainment foundation through this special interest group of dedicated gamers. Third, create and bolster a competitive electronic sports team in order to compete against other colleges and universities with similar goals and identities.
SAE International

SAE International (formerly the Society of Automotive Engineers) has more than 121,000 members - engineers, business executives, educators, and students from more than 97 countries - who share information and exchange ideas for advancing the engineering of mobility systems. SAE is your one-stop resource for standards development, events, and technical information and expertise used in designing, building, maintaining, and operating self-propelled vehicles for use on land or sea, in air or space. The Baylor University Collegiate Chapter of SAE International is available to all students at Baylor who share a common interest in aerospace, automobiles, commercial vehicles, or motorsports. The organization provides opportunities to grow as an engineer and a professional through company tours, professional speakers, and student competitions. The Baylor Formula SAE team is currently in the process of designing, building, testing, and competing the first of many Formula SAE cars in future of Baylor SAE.

Baylor Aero

Dr. Anne Spence, Advisor

Baylor Aero provides students with an accelerated hands-on experience in mechanical and aerospace engineering. The club competes annually in the intercollegiate SAE Aero Design competition, in which students gain understanding of the aviation sciences and RC electronics through the construction of model aircraft. Summer residents may study rapid prototyping through an annual 3-D printed aircraft competition. The club offers company tours and education seminars throughout the year.

Baylor Baja

Dr. Anne Spence, Advisor

Baylor Baja is a student-led organization that allows engineering students to gain hands-on experience researching, designing, manufacturing, and testing a one-seater, off-road vehicle. The Baja team travels to an annual competition to compete against 100 universities from around the globe and defend design decisions to a panel of professional engineers from various car companies. The experiences available through this club help to round out the education you receive in the classroom and prepare you to be successful whether you want to go into industry or onto graduate school.

Virtual Reality (VR) Club at Baylor University

3. As an international organization of leading engineers, SAE provides powerful networking opportunities and the ability to connect with many professional and technical individuals and materials that can help jump-start a young engineer’s professional career.

Society of Women Engineers

Dr. Anne Spence, Advisor

Baylor University’s Student Section of the Society of Women Engineers is open to all engineering and computer science students, both male and female. The goals of the section are:

To provide education about the challenges facing female engineers,
To create a sense of identity and community,
To provide resources for women engineers, and
To enhance leadership and professional skills.

These goals are achieved through mentoring relationships, presentations, field trips, and other activities.

Theme Park Engineering and Design at Baylor University

Dr. Jill Klentzman, Advisor

BTPED is a student organization open to all majors and those interested specifically in theme parks. The purpose of this organization is

To develop creative thinking, teamwork, communication and friendships while representing Baylor in the Walt Disney Imaginations competition and in the theme park and entertainment industry
To create professional, educational, and networking opportunities for students through exposure to the industry and participation in experience-building activities, and
To expose members to resources furthering their knowledge concerning engineering and design.

The major goals of BTPED are: uniting Baylor undergraduates, encouraging creativity, problem solving and cooperation between majors as well as entering the Walt Disney Imaginations competition.

Theta Tau

Dr. Elon Terrell, Advisor

Theta Tau is the oldest, largest, and foremost Fraternity for Engineers. Since its founding at the University of Minnesota in 1904, over 35,000 have been initiated over the years. With emphasis on quality and a strong fraternal bond, the Fraternity has chapters only at ABET accredited schools and limits the number of student members in any one of its chapters across the nation. The purpose of Theta Tau is to develop and maintain a high standard of professional interest among its members, and to unite them in a strong bond of fraternal fellowship. Activities carried out by Theta Tau include hosting professional industry speaker talks, faculty research and graduate school talks, social events for members, community service philanthropy, providing tours around the engineering school for incoming freshman, and any activity the fraternity feels will best serve Baylor ECS and its students. The national fraternity provides powerful networking opportunities and the ability to connect with many professional and technical individuals and materials that can help jump-start a young engineer’s professional career.

Baylor University’s Chapter of the Society of Plastics Engineers is an interdisciplinary professional organization that provides students an opportunity to learn from and be involved with the 20,000-member international organization of leading engineers, scientists and plastics professionals. This organization provides student members access to knowledge of one of the fastest growing industries as well as professional contacts throughout the profession. This organization not only brings to light the impressive research work of both faculty and students on Baylor’s campus pertaining to the plastics industry, but it allows both researchers and interested students on Baylor’s campus pertaining to the plastics industry, but it allows both researchers and interested students a chance to interact and form relationships with professions within the industry. The major goals of the organization are:

1. To increase interest in the area of plastics engineering, plastics scientists, and professional careers in the industry;
2. To provide opportunities for students to learn about plastics engineering through organized tours, extra-curricular education sessions, and related events that cover topics in these areas; and
3. To provide information about career opportunities in the field of plastics engineering.
the Baylor VR Club is a part of CVRE, a collegiate VR eSports league. We compete against other schools such as UC Berkeley and Miami. Finally, the Baylor VR Club streams its events and has a commeneted stream every Thursday Night.

**Women in Computer Science**  
Professor Cindy Fry, Advisor

Baylor’s Women in Computer Science (WiCS) is available to all female majors in the Department of Computer Science as well as to other females in STEM fields at Baylor. WiCS is designed to promote community among female computer science majors through discussion and reading groups, in addition to Q&A sessions with professional women in tech industries. In addition to developing community, WiCS is designed to limit attrition among females in the major. Through intentional peer mentorships, 1-2 upper-division females will meet periodically with 2-3 students to talk about courses, challenges, perseverance, and internship/job opportunities with Computer Science.

**Student Awards**

In addition to numerous campus awards for which engineering and computer science students are eligible, the faculty of the School of Engineering and Computer Science present the following departmental awards:

**Computer Science**

The Patrick J. Keane Outstanding Computer Science Senior Award  
This award recognizes high scholastic achievement and service. This award is presented annually by the faculty of the Department of Computer Science to a graduating computer science student with a high GPA and a distinguished record of service to the Department of Computer Science.

The Outstanding Computer Science Scholar Award  
This award is presented annually to the graduating senior in computer science who ranks highest in the class.

The Outstanding Service Award  
This award is presented annually to the graduating computer science major with a distinguished record for service to the Department of Computer Science and Baylor University.

The Outstanding Graduate Assistant Award  
This award is presented annually to a graduate assistant in computer science with a distinguished record for service to the Department of Computer Science.

The Outstanding Bioinformatics Senior Award  
This award recognizes high scholastic achievement and service. This award is presented annually by the faculty of the Department of Computer Science to a graduating bioinformatics student with a high GPA and a distinguished record of service.

Outstanding Undergraduate Research Award  
This award recognizes an undergraduate with extraordinary research achievements or activities, scientific impact, or other advancements in computer science fields and disciplines.

**Electrical & Computer Engineering**

The Outstanding Student Award  
This award is presented to a junior or senior Electrical and Computer Engineering student who demonstrates strong scholastic achievement, involvement, and service.

**The Outstanding Scholar Award**  
This award is presented to a junior or senior Electrical and Computer Engineering student for high scholastic achievement.

**The Outstanding Leadership and Service Award**  
This award is presented to a junior or senior Electrical and Computer Engineering student with a distinguished record of leadership and/or service to the department, university, and community.

**The Outstanding Research Contribution Award**  
This award is presented to a junior or senior Electrical and Computer Engineering student for productivity as a researcher in a faculty laboratory or on an undergraduate research project.

**The Outstanding Graduate Teaching/Assistant Award**  
This award is presented to a graduate Electrical and Computer Engineering student for significant contributions to course development or delivery and/or a distinguished record of teaching.

**Engineering**

The Outstanding Senior Award  
This award is presented annually to a graduating student with a high GPA, significant contribution to the senior design project, and a distinguished record of service to the School of Engineering and Computer Science and beyond.

**Mechanical Engineering**

The Outstanding Scholar Award  
This award is presented to a junior and/or senior Mechanical Engineering student in recognition of high scholastic achievement.

The Outstanding Leadership and Service Award  
This award is presented to a junior and/or senior Mechanical Engineering student with a distinguished record of leadership and/or service to the department, university, and community.

**Scholarships**

The scholarships listed below are available to continuing students in the School of Engineering and Computer Science. The application for these funds is sent to students via email during the spring semester and are awarded typically by May 1st. Current Pre-engineering, Computer Science, and Bioinformatics students are eligible to apply for departmental funds through a separate application process during the spring semester. Information about that process can be found at www.ecs.baylor.edu/scholarships (http://www.ecs.baylor.edu/scholarships/).

**Chairs**

McCollum Family Chair in Data Sciences  
Mearse Endowed Chair in Biological and Biomedical Engineering

**Scholarships**

Anonymous Endowed Scholarship Fund in Engineering  
Brian & Julie Bammel Family Endowed Scholarship Fund in Electrical & Computer Engineering  
Dr. James D. Bargainer, Jr. Endowed Scholarship Fund in Engineering  
Baylor Engineering Alumni & Faculty Endowed Scholarship Fund  
Baylor University Association of Computer Machinery Scholarship Fund  
Dr. Walter Bradley Polymers & Materials ECF  
Capstone Mechanical Endowed Scholarship Fund  
Steve B. & Penny Flowers Carlile Endowed Scholarship Fund in Engineering  
Shannon Casteel Memorial Endowed Scholarship Fund in Engineering & Computer Science
Central Texas Chapter of the Society of Professional Engineers Scholarship Fund
Computer Science Endowed Scholarship
Brad C. & Alison F. Crawford Endowed Scholarships Fund in Engineering
Jennifer and Hal Elrod Endowed Scholarship Fund in Computer Science Engineering Scholarship Fund
Engineering & Computer Science Scholarship Fund
Estes Family Endowed Scholarship Fund
ExxonMobil Employees Endowed Scholarship Fund
Charles "Court" Franklin Memorial Endowed Scholarship Fund in Mechanical Engineering
Dr. Donald Gaitros Endowed Scholarship Fund in Computer Science
John & Ann Iler Endowed Scholarship Fund
Roy L. & Betty Jacobs Endowed Scholarship Fund
Dr. Benjamin S. Kelley Endowed Scholarship Fund in Engineering & Computer Science (Sponsored by the ECS Board of Advocates)
L-3 Endowed Scholarship Fund in the School of Engineering & Computer Science
Fred Logan Endowed Scholarship Fund in Engineering
Jim & Marian Lord Endowed Scholarship Fund in Engineering & Computer Science
Dr. Cedric & Ann Lowrey Endowed Scholarship Fund in Engineering
Jennifer and Ryan Malone Endowed Scholarship Fund
William Eldon Mearse Family Endowed Scholarship Fund
Mark & Carol Measures Endowed Scholarship Fund
Neill Morris Memorial Scholarship Fund
R. Bryan Nichols Estate Scholarship Fund
Dr. & Mrs. James Nolen Endowed Computer & Engineering Science Scholarship Fund
Dr. Harold E. & Patricia A. Rafuse Endowed Scholarship Fund
Marcie & Don M. Roberts Baylor Alumni Endowed Scholarship Fund
Shawn & Julia Sedate Endowed Scholarship Fund in Engineering & Computer Science
Trent & Sue-Lynn Voigt Endowed Scholarship Fund in Computer Science
W. James Wilkinson & Sarah Harvey Wilkinson Endowed Scholarship Fund in Engineering & Computer Science
Willis Family Endowed Scholarship Fund for the School I5 Program
Willis Family Endowed Scholarship Fund in the School of Engineering & Computer Science
David & Nancy Hidy Wilson Scholarship Fund

Graduate Programs in the School of Engineering and Computer Science

I. Master of Science
   Biomedical Engineering
   Computer Science
   Electrical and Computer Engineering
   Mechanical Engineering

II. Professional Degree
    Master of Engineering

III. Joint Graduate Degree
    Master of Business Administration/Master of Engineering

IV. Doctor of Philosophy
    Computer Science
    Electrical and Computer Engineering
    Mechanical Engineering

V. Joint Undergraduate/Graduate Degrees
   Electrical and Computer Engineering Joint Program B.S.E.C.E./M.S.E.C.E.

Electrical Computer Engineering/Biomedical Engineering B.S.E.C.E./M.S.B.M.E.
Electrical Computer Engineering/Master of Engineering B.S.E.C.E./M.E.
Mechanical Engineering Joint Program B.S.M.E./M.S.M.E.
Mechanical Engineering/Biomedical Engineering B.S.M.E./M.S.B.M.E.
Mechanical Engineering/Master of Engineering B.S.M.E./M.E.

Engineering Registration (P.E.)
The engineering faculty encourage students to seek registration or licensure as professional engineers (P.E.) during their careers. Consequently, students are encouraged to take the National Council of Examiners for Engineering and Surveying's (NCEES) Fundamentals of Engineering (FE) exam prior to graduation. This test, a comprehensive knowledge exam given nationally, is the first step toward professional registration. Baylor engineering seniors have had an excellent pass rate for this exam.

Accreditation
The Bachelor of Science in Computer Science (B.S.C.S.) degree program is accredited by the Computing Accreditation Commission of ABET.

The following degree programs are accredited by the Engineering Accreditation Commission of ABET (http://www.abet.org):

- Bachelor of Science in Electrical and Computer Engineering (B.S.E.C.E.)
- Bachelor of Science in Engineering (B.S.E.)
- Bachelor of Science in Mechanical Engineering (B.S.M.E.)

School of Engineering and Computer Science Faculty and Staff

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erich J. Baker, Ph.D.</td>
<td>Interim Dean</td>
</tr>
<tr>
<td>Michael W. Thompson, Ph.D.</td>
<td>Associate Dean for Undergraduate Programs</td>
</tr>
<tr>
<td>Kenneth Van Treuren, D. Phil.</td>
<td>Associate Dean of Research &amp; Faculty Development</td>
</tr>
</tbody>
</table>

Department of Computer Science
Gregory J. Hamerly, Ph.D., Interim Department Chair
William A. Booth, Ph.D., Assistant Chair
G. Michael Poor, Ph.D., Graduate Program Director
Matthew H. Aars, M.S.
Michael A. Aars, M.S.
Mary Lauren Benton, Ph.D.
Tomas Cerny, Ph.D.
Michael J. Donahoo, Ph.D.
Matthew W. Fendt, Ph.D.
Cynthia C. Fry, M.S.
Henry Han, Ph.D., Endowed Chair of Data Science
Shaun Hutton, M.Div., M.C.S.
Peter M. Maurer, Ph.D.
William B. Poucher, Ph.D.
Pablo Rivas, Ph.D.
Eunjee Song, Ph.D.
Gregory D. Speegle, Ph.D.
Sharon L. Humphrey, Graduate Program Coordinator
Candace Ditsch, Office Manager
Department of Electrical and Computer Engineering

Kwang Y. Lee, Ph.D., P.E., Chair
Scott Koziol, Ph.D., Assistant Chair
Keith E. Schubert, Ph.D., Graduate Program Director
Emmanuel Agamloh, Ph.D.
Charles P. Baylis, Ph.D.
Enrique (Erik) Blair, Ph.D.
Liang Dong, Ph.D.
William (Mack) Grady, Ph.D., P.E., Fellow of IEEE
Ian A. Gravagne, Ph.D.
Jonathan Hu, Ph.D.
Seunghyun Kim, Ph.D.
Vincent W. Leung, Ph.D.
Yang Li, Ph.D.
Robert J. Marks II, Ph.D., Fellow of IEEE, Fellow of OSA
Linda J. Olafsen, Ph.D.
Steven P. Potter, M.S.
J. Brian Thomas, M.S.
Michael W. Thompson, Ph.D.
Annette von Jouanne, Ph.D., P.E., Fellow of IEEE
Adam Weaver, M.S.
Michelle L. Aars, Office Manager
Minnie R. Simčič, Graduate Program Coordinator

Department of Mechanical Engineering

Paul I. Ro, Ph.D., Chair
Anne Spence, Ph.D., Assistant Chair, Fellow of ASME
Stephen T. McClain, Ph.D., P.E., Graduate Program Director
Paul G. Allison, Ph.D., Fellow of ASME
Joseph Donndelinger, M.S.
Trevor J. Fleck, Ph.D.
Brian A. Garner, Ph.D.
David (Stanton) Greer, M.S.
David A. Jack, Ph.D.
Lulin Jiang, Ph.D.
J. Brian Jordon, Ph.D.
Benjamin S. Kelley, Ph.D., P.E.
Jill Klentzman, Ph.D.
Yue (Stanley) Ling, Ph.D.
Byron P. Newberry, Ph.D., P.E.
Min Young Pack, Ph.D.
Jonathan Rylander, Ph.D.
Abhendra Singh, Ph.D.
Carolyn T. Skurla, Ph.D., P.E.
Douglas Smith, Ph.D., P.E., Fellow of ASME
Elon J. Terrell, Ph.D.
Kenneth W. Van Treuren, D. Phil., Fellow of ASME
Alexandre F.T. Yokochi, Ph.D.
Sara Baker, Office Manager
Jodi Branch, Graduate Program Coordinator
James (Ashley) Orr, Manufacturing/Machinery Consultant

ECS Development

Jenna Hoff, M.Div., Director

Financial Information

Mark McCready, CIA, MPPA, MSIS, CBA, Business Officer

Financial Specialist

Alvaro Garcia, M.B.A., Specialist

Teal Residential College

Patrick Hynan, Director

ECS Technology Support

Robert A. Baish, Manager

ECS Server Administrator

Patrick Clancy, Server Administrator

Senior Computer Systems Analyst

George Gonzales, Jr., Senior Analyst

Undergraduate Programs

Emily Sandvall, M.Ed., Senior Director of Undergraduate Programs

Undergraduate Programs

Angie Henry, Office Manager

Undergraduate Programs

Ida Jamshidi, M.S.Ed., Senior Director of Advising

Undergraduate Programs

Megan Glover, M.S.Ed., Coordinator of New Student Recruitment

Undergraduate Programs

John Hewitt, M.Div., Coordinator of Advising and Special Programs

Undergraduate Programs

Sarah Mosley, Coordinator of Advising and Curriculum

Computer Science Graduate Program

Daniel Adams, M.S.Ed., Advising Program Coordinator

- Computer Science and Informatics (https://catalog.baylor.edu/undergraduate/school-engineering-computer-science/computer-science-bscs-informatics-bsi/)
- Engineering (https://catalog.baylor.edu/undergraduate/school-engineering-computer-science/engineering/)
- ECS Minors (https://catalog.baylor.edu/undergraduate/school-engineering-computer-science/ecs-minors/)

Administrative Offices

<table>
<thead>
<tr>
<th>Office</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office of the Dean</td>
<td>Cheryl Tucker, M.S.Ed., Assistant to the Dean</td>
</tr>
<tr>
<td>Marketing and Communications</td>
<td>Lane Murphy, M.A., Director</td>
</tr>
</tbody>
</table>

Baylor University 2022-2023 Undergraduate Catalog